•	Application No.	Applicant(s)
Notice of Allowability	10/724,543	KANE, RICHARD L.
	Examiner	Art Unit
	CUONG H. NGUYEN	3661
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to	plication. If not included
1. This communication is responsive to the amendment received.	ved on 2/15/07.	
2. The allowed claim(s) is/are 1-15,17-31, they are renumber	ed as claims 1-30; 3 sheets of forma	ol drawings (2/15/07) are accepted.
 Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received:	been received. been received in Application No	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a reply ENT of this application.	complying with the requirements
 A SUBSTITUTE OATH OR DECLARATION must be submi INFORMAL PATENT APPLICATION (PTO-152) which give 	itted. Note the attached EXAMINER' is reason(s) why the oath or declara	S AMENDMENT or NOTICE OF tion is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.	
(a) I including changes required by the Notice of Draftspers		948) attached
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		,
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment or in the O	ffice action of
Identifying Indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on the drawing the header according to 37 CFR 1.121(c	gs in the front (not the back) of
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT F 	sit of BIOLOGICAL MATERIAL m FOR THE DEPOSIT OF BIOLOGICA	nust be submitted. Note the AL MATERIAL.
Attachment(s)	•	
1. Notice of References Cited (PTO-892)	5. D Notice of Informal Pa	• •
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	 Interview Summary (Paper No./Mail Date 	(PTO-413), ∋ .
Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. Examiner's Amendm	nent/Comment
Examiner's Comment Regarding Requirement for Deposit of Biological Material		nt of Reasons for Allowance
	9.	
		CUONG H. NGUYEN Primary Examiner Art Unit: 3661

- 1. This Office Action is the answer to the amendment filed on 2/15/2007, which paper has been placed of record in the file.
- 2. Claims 1-15, and 17-31 are pending in this application; claims 16, and 32 were canceled by the amendment filed 2/15/2007.
- 3. 3 replacement sheets of drawings (FIGS. 1-3) received 2/15/2007 are acceptable.

 Allowable Subject Matter & Reasons for Allowance
- 4. Independent claims 1 and 17 are patentable over references of Ratkovic et al. (US Pat. 6,573,486), Katz et al. (US Pat. 6,473,676), and Shiller et al. (US Pub. 2003/0137433) because these documents do not disclose a system or a method for assisting a pilot flying an aircraft having solid state gyros and a turn coordinator gyro onboard, in addition to other limitations, comprises a means on-board the aircraft for determining the roll rate of the aircraft from satellite-based radio navigation signals and from said solid state gyros and said turn coordinator gyro on-board the aircraft.
- Ratkovit et al.'s reference is directed about a projectile.
- Katz et al. teach about using four sensors to sense the linear acceleration in vertical direction, airspeed, roll rate/yaw rate, and magnetic heading of the aircraft, respectively. A signal processor coupled to the sensors, has pitch angle, roll angle, and heading angle estimators and an output. A display displays the angle estimation output from the signal processor to the pilot; however, these information are not satellite-based radio navigation signals.
- Peter J. Schiller et al. teach a system has two sensors including rotational rate sensors and compensation sensors providing rotational rate signals and compensation signals respectively. The rotational rate sensor has a gyro with a single sheet of

piezoelectric material. A microcontroller processes the signals and a display displaying attitude, directional, and turn coordinate information simultaneously; however, these information are not provided from a GPS.

5. Dependent claims 2-15, and 18-31 are patentable because they are dependent on above independent claims.

Conclusion

- Claims 1-15, and 17-31 are patentable.Claims 17, 30-31 are renumbered as claims 16, 17, and 30.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to CUONG H. NGUYEN whose telephone number is 571-272-6759 (email address: cuong.nguyen@uspto.gov). The examiner can normally be reached on 9:00 am 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, THOMAS G. BLACK can be reached on 571-272-6956. The Rightfax number for the organization where this application is assigned is 571-273-6759.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PRIMARY EXAMINER